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Value prediction for speculative multithreaded architectures - all 25 versions »

P Marcuello, J Tubella, A Gonzalez - Microarchitecture, 1999. MICRO-32. Proceedings. 32nd Annual ..., 1999 - [ieeexplore.ieee.org](#)

... on the potential of **value prediction** to boost ... considered the Clustered **Speculative** Multithreaded microarchitecture. ... up of several **thread** units interconnected ...

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In search of speculative thread-level parallelism - all 7 versions »

JT Oplinger, DL Heine, MS Lam - Parallel Architectures and Compilation Techniques, 1999. ..., 1999 - [ieeexplore.ieee.org](#)

... By using **value prediction**, a **speculative thread** need not be rolled back upon detecting a true data dependence violation if the predicted **value** matches the ...

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[book] Speculative multithreaded processors - all 35 versions »

P Marcuello, A González, J Tubella - 1998 - ACM Press New York, NY, USA

... only necessary to be allocated at **speculative thread** creation. ... in the **values** created by the same **thread**. ... in memory **values** using a **value prediction** scheme like ...

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Enhancing software reliability with speculative threads - all 18 versions »

J Oplinger, MS Lam - ACM SIGARCH Computer Architecture News, 2002 - [portal.acm.org](#)

... now give an overview of the architecture, followed by the details of how the **speculative threads** are controlled, and the addition of **value prediction** to the ...

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Execution-based prediction using speculative slices - all 20 versions »

C Zilles, G Sohi - ACM SIGARCH Computer Architecture News, 2001 -

[doi.ieeecomputersociety.org](#)

... **Speculative** slices execute as helper **threads** on a multi ... the cache and generating branch **predictions**, but they ... After copying some register **values** from the main ...

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A dynamic multithreading processor - all 25 versions »

H Akkary, MA Driscoll - Microarchitecture, 1998. MICRO-31. Proceedings. 31st Annual ... - [ieeexplore.ieee.org](#)

... **thread-level** dataflow and data **value prediction** is used ... Selective recovery requires all **speculative** execution results to be ... Since **threads** look ahead far into a ...

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On Dynamic Speculative Thread Partitioning and the MEM-Slicing Algorithm - all 10 versions »

L Codrescu, DS Wills - Journal of Universal Computer Science, 2000 - [jucs.org](#)

... and predictability of live data inputs into a **speculative thread**. ... should be no live data inputs into the **thread**. ... it can be removed with data **value prediction**. ...

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Compiler optimization of scalar **value** communication between **speculative threads** - all 19 versions »

A Zhai, CB Colohan, JG Steffan, TC Mowry - ACM SIGPLAN Notices, 2002 - portal.acm.org
... the efficiency of speculation include **prediction** of loads ... mem-ory with the same **value** that is ... posed decomposing a program into **speculative threads** by having a ...
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Data speculation support for a chip multiprocessor - all 24 versions »

L Hammond, M Willey, K Olukotun - ACM SIGOPS Operating Systems Review, 1998 - portal.acm.org
... Upon completing this **speculative thread**, it must wait to become the ... restarts and re-executes the a **thread** if the original return **value prediction** was wrong ...
Cited by 178 - Related Articles - Web Search - Library Search - BL Direct

Improving **value** communication for **thread**-level speculation - all 16 versions »

JG Steffan, CB Colohan, A Zhai, TC Mowry - High-Performance Computer Architecture, 2002. Proceedings. ..., 2002 - ieeexplore.ieee.org
... the key to good performance lies in the three different ways to communicate a **value** between **speculative threads**: speculation, synchronization, and **prediction**. ...
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value profiling

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B Calder, P Feller, A Eustace - Proceedings of the 30th annual ACM/IEEE international ..., 1997 - doi.ieeecs.org

Page 1. **Value Profiling** Brad Calder Peter Feller Alan Eustace ... **Value profiling** is an approach that can identify these semi-invariant variables. ...

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Value profiling and optimization - all 11 versions »

B Calder, P Feller, A Eustace - Journal of Instruction Level Parallelism, 1999 - charlotte.ucsd.edu

... **Value Profiling** and Optimization Brad Calder CALDER @ CS **Value Profiling** can be used to identify the invariance and the top N **values** or range of a variable. ...

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Value Speculation Scheduling for High Performance Processors - all 9 versions »

C Fu, MD Jennings, SY Larin, TM Conte - portal.acm.org

... Speedup of up to 17% has been shown for using VSS. Empirical results on the **value** predictability of loads, based on **value profiling** data, are also provided. ...

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Code specialization based on value profiles - all 9 versions »

R Muth, SA Watterson, SK Debray - Static Analysis Symposium, 2000 - Springer

... 2.1 Estimating Benefits of Specialization Our **value profiling** and specialization decisions are guided by estimates of the benefit that would be obtained from ...

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Value Profiling for Instructions and Memory Locations - all 8 versions »

PT Feller - 1998 - www-cse.ucsd.edu

... II.A **Value Prediction** The recent publications on **value** prediction [17, 27, 28] in hardware provided ... Page 16. Chapter III **Value Profiling** Methodology ...

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Calpa: a tool for automating selective dynamic compilation - all 20 versions »

M Mock, C Chambers, SJ Eggers - Proceedings of the 33rd annual ACM/IEEE international ..., 2000 - portal.acm.org

... the same inputs were used for **profiling** and the final performance runs that determine application speedup. Studying the variance of **value** profiles across ...

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Efficient discovery of regular stride patterns in irregular programs and its use in compiler ... - all 3 versions »

Y Wu - ACM SIGPLAN Notices, 2002 - portal.acm.org

... to form large traces in control-intensive- programs [4]. **Value profiling** can reveal invariance in data variables to guide specialization optimizations [19]. ...

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Rapid **profiling via stratified sampling - all 17 versions »**

SS Sastry, R Bodik, JE Smith - ACM SIGARCH Computer Architecture News, 2001 - doi.ieeecs.org

... Using load **value profiling** as a case study, we experimentally show that given a fixed overhead budget and a desired level of accuracy, the stratified periodic ...

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[DOC] Molecular Classification of Cutaneous Malignant Melanoma by Gene Expression **Profiling - all 6 versions »**

M Radmacher, R Simon - SURVIVAL - nature.com

... by Gene Expression **Profiling**. ... For categorical variables we created a contingency table and used Fisher's exact test to compute a p-value (the Chi-square test ...

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Selective **value prediction - all 17 versions »**

B Calder, G Reinman, DM Tullsen - ACM SIGARCH Computer Architecture News, 1999 - portal.acm.org

Page 1. Selective **Value** Prediction Brad ... ing. The latter technique filters which instructions put **values** into the **value** prediction table. ...

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